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(54) ELECTRODE MATERIAL FOR ELECTRIC DISCHARGE MACHINING

(57)Abstract:

PURPOSE: To obtain an electrode material for electric discharge machining improved in working speed and reduced in electrode consumption ratio, by incorporating an additive composed of a combined metal compound to a base metal.

CONSTITUTION: An additive composed of a combined compound of Sr and oxide of Ca, Zr, La, Ce, W, etc., is dispersed and incorporated into a base alloy consisting, preferably, of a W-base alloy such as Cu-W alloy, Ag-W alloy, etc. As the above composite compound, particularly a composite compound such as (Ca, Sr)O, SrZrO₃, La₂Sr₂O₅, etc., is chemically stable and free from hygroscopicity and has high melting point and boiling point, and accordingly, it has a function of reducing electrode consumption to a remarkable extent as compared with the case of mixed addition not to mention with the case of the addition of the conventional simple oxide. Further, in order to perform the above-mentioned function, it is necessary to incorporate the composite oxide, etc., into the base metal by an amount in the range of 0.05W10wt.%.

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